1T00163 - M.C.A. (SEM-III) (Choice Based) (Two Year Course) / 70722 - Distributed System & Cloud Computing   QP CODE: 10031086   DATE: 05/08/2023

(3 Hours)   **[Total Marks: 80]**

N.B.: 1) Question No.1 is compulsory.
      2) Attempt any three from the remaining five questions.

Q.1	**(a)**	What are the load-sharing policies used for distributed systems?	**5**
	(b)	What are election algorithms? Explain bully algorithm.	**5**
	(c)	What are the issues in data security in cloud computing?	**5**
	(d)	What is a grid computing mechanism	**5**
Q.2	**(a)**	Discuss the issues in designing and implementing DSM systems.	**10**
	(b)	What is process management? Explain the address transfer mechanism in detail.	**10**
Q.3	**(a)**	What is physical and logical clock synchronization; explain the drifting of a clock.	**10**
	(b)	What is group communication? Explain in detail Message ordering techniques (Absolute, consistent and casual ordering)	**10**
Q.4	**(a)**	Explain cloud computing and discuss cloud security issues.	**10**
	(b)	How file management is performed in a distributed environment? Explain with an example.	**10**
Q.5	**(a)**	What is multi-datagram messaging? Explain the failure handling technique in IPC	**10**
	(b)	Explain cloud computing architecture in detail.	**10**
Q.6		**Write a short note on:**	**20**
		a. Pipeline Thread Model	
		b. Strict Consistency Model	
		c. Drifting of the clock	
		d. Callback RPC	

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